## **United States Patent Application**

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

### No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

**Application Number** 60/536071

Filing Date

January 12, 2004

I hereby claim the benefit under 35 U.S.C. § 120 or 365(c) of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

No such claim for priority is being made at this time.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Filing Date: not assigned

Gagne, Christopher

Green, Sharmini N.

Greenberg, Robert A.

Greenwald, Bradley A.

Reg. No. 37,474

Reg. No. 41,382

Reg. No. 37,760

Reg. No. 42,242

Reg. No. 38,613

Aldous, Alan	Reg. No. 31,905	Hope, Libby	Reg. No. 46,774	Scott, Russell	Reg. No. 43,103
Anderson, Rob A.	Reg. No. 33,826	Huter, Jeffrey B.	Reg. No. 41,086	Seddon, Ken	Reg. No. 43,105
Bacon, Shireen	Reg. No. 40,494	Jordon, B. D.	Reg. No. 43,698	Seeley, Mark	Reg. No. 32,299
Barre, Michael	Reg. No. 44,023	Kalson, Seth	Reg. No. 40,670	Shah, Ami P.	Reg. No. 42,143
Beale, Jay P.	Reg. No. 50,901	Lam, Peter	Reg. No. 44,855	Simon, David	Reg. No. 32,756
Brake, Edward	Reg. No. 37,784	Lin, Issac	Reg. No. 50,672	Skabrat, Steve	Reg. No. 36,279
Burge, Ben	Reg. No. 42,372	Martinez, Anthony	Reg. No. 44,223	Steiner, Paul E.	Reg. No. 41,326
Chen, George	Reg. No. 50,807	McCall, Molly	Reg. No. 46,126	Stutman-Horn, Joni	Reg. No. 42,173
Choi, Glen	Reg. No. 43,546	Mennemeier, Larry	Reg. No. 51,003	Tran, David	Reg. No. 50,804
Cool, Kenneth J.	Reg. No. 40,570	Nagy, Paul	Reg. No. 37,896	Travis, John F.	Reg. No. 43,203
Crawford, Ted A.	Reg. No. 50,610	Nesheiwat, Michael J.	Reg. No. 47,819	Tweet, Kerry D.	Reg. No. 45,959
Diehl, Robert	Reg. No. 40,992	Nicholls, Dennis A.	Reg. No. 42,036	Wells, Calvin	Reg. No. 43,256
Draeger, Jeffrey S.	Reg. No. 41,000	Parker, Lanny	Reg. No. 44,281	Whittington, Stuart	Reg. No. 45,215
Faatz, Cindy	Reg. No. 39,973	Pedersen-Giles, Alan	Reg. No. 39,996	Willardson, Michael	Reg. No. 50,856
	_ ~ ~				

Reg. No. 43,004

Reg. No. 43,021

Reg. No. 36,381

Reg. No. 44,318

Winkle, Robert G.

Wisor, Rita

Wong, Sharon

Scott, John C.

Yates, Steven D.

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct The Law Offices of John C. Scott, LLC to the contrary.

Plimier, Michael D.

Proksch, Michael

Sayles, Crystal D.

Reif, Kevin A.

Please direct all correspondence in this case to The Law Offices of John C. Scott, LLC at the address indicated below: c/o PortfolioIP
P.O. Box 52050, Minneapolis, MN 55402
Telephone No. 480-948-3745

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1:

Ali S. Sadri

Citizenship: Post Office Address: United States of America

11835 Carmel Mountain Rd.

Suit#1304-360

Reg. No. 36,142

Reg. No. 41,410

Reg. No. 44,133

Reg. No. 34,341

San Diego, CA 92128

Signature:

Date: Marl 73-04

Residence: San Diego, CA

 $\underline{X}$  Additional inventors are being named on separately numbered sheets, attached hereto.

Filing Date: not assigned

Full Name of joint inventor number 2: Alexander A. Maltsev Citizenship: Russian Federation Residence: Nizhny Novgorod, Russian Federation Post Office Address: Verhne-Pecherskaya Str., 1-7 Nizhny Novgorod 603105 Russian Federation Signature: Date: \_\_ Alexander A. Maltsev Full Name of joint inventor number 3: Vadim S. Sergeyev Citizenship: Russian Federation Residence: Nizhny Novgorod, Russian Federation Post Office Address: Vaneev Str., 19-28 Nizhny Novgorod 603105 Russian Federation Signature: Date: \_\_\_\_\_ Vadim S. Sergeyev

#### § 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
  - (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and
  - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

# United States Patent Application COMBINED DECLARATION AND POWER OF ATTORNEY

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Aldous, Alan Anderson, Rob A. Bacon, Shireen Barre, Michael Beale, Jay P. Brake, Edward Burge, Ben Chen, George Choi, Glen Cool, Kerneth J. Crawford, Ted A. Diehl, Robert Draeger, Jeffrey S. Faatz, Cindy Gagne, Christopher Green, Sharmini N. Greenberg, Robert A. Greenwald, Bradley A.	Reg. No. 31,905 Reg. No. 40,494 Reg. No. 44,023 Reg. No. 50,901 Reg. No. 37,784 Reg. No. 42,372 Reg. No. 50,807 Reg. No. 43,546 Reg. No. 40,570 Reg. No. 50,610 Reg. No. 40,992 Reg. No. 40,992 Reg. No. 39,973 Reg. No. 36,142 Reg. No. 41,410 Reg. No. 44,133 Reg. No. 34,341	Hope, Libby Huter, Jeffrey B. Jordon, B. D. Kalson, Seth Lam, Peter Lin, Issac Martinez, Anthony McCall, Molly Mennemeier, Larry Nagy, Paul Nesheiwat, Michael J. Nicholls, Dennis A. Parker, Lanny Pedersen-Giles, Alan Plimier, Michael D. Proksch, Michael Reif, Kevin A. Sayles, Crystal D.	Reg. No. 46,774 Reg. No. 41,086 Reg. No. 43,698 Reg. No. 40,670 Reg. No. 44,855 Reg. No. 50,672 Reg. No. 44,223 Reg. No. 46,126 Reg. No. 51,003 Reg. No. 37,896 Reg. No. 47,819 Reg. No. 42,036 Reg. No. 42,036 Reg. No. 42,036 Reg. No. 44,281 Reg. No. 39,996 Reg. No. 43,004 Reg. No. 43,004 Reg. No. 36,381 Reg. No. 36,381 Reg. No. 44,318	Scott, Russell Seddon, Ken Seeley, Mark Shah, Arni P. Simon, David Skabrat, Steve Steiner, Paul E. Stutman-Horn, Joni Tran, David Travis, John F. Tweet, Kerry D. Wells, Calvin Whittington, Stuart Willardson, Michael Winkle, Robert G. Wisor, Rita Wong, Sharon Yates, Steven D. Scott, John C.	Reg. No. 43,103 Reg. No. 43,105 Reg. No. 32,299 Reg. No. 42,143 Reg. No. 32,756 Reg. No. 36,279 Reg. No. 41,326 Reg. No. 41,326 Reg. No. 42,173 Reg. No. 50,804 Reg. No. 43,203 Reg. No. 43,203 Reg. No. 45,959 Reg. No. 45,255 Reg. No. 50,856 Reg. No. 50,856 Reg. No. 37,474 Reg. No. 37,474 Reg. No. 37,760 Reg. No. 42,242 Reg. No. 42,242 Reg. No. 42,242 Reg. No. 43,186
				Scott, John C.	Reg. No. 38,613

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct The Law Offices of John C. Scott, LLC to the contrary.

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Residence: San Diego, CA

statements may jeopardize the validity of the application or any patent issued thereon.	de and that such willing
T 1137	

Full Name of joint inventor number 1: <u>Ali S. Sadr</u>i Citizenship: **United States of America** 

Post Office Address: 11835 Carmel Mountain Rd.

Suite 1304-360 San Diego, CA 92128

Signature:		Date:	
	Ali S. Sadri	_	

X Additional inventors are being named on separately numbered sheets, attached hereto.

Full Name of joint inventor nun	ber 2: Alexander A. Maltsev	
Citizenship:	Russian Federation	Residence: Nizhny Novgorod, Russian Federation
Post Office Address:	Verhne-Pecherskaya Str., 1-7	The state of the s
	Nizhny Noygorod 603105 Russian Fe	ederation
Signature:	[Ju]/	Date: March 24, 2004
	ender & Maltsev	
		•
-		
Full Name of joint inventor num	ber 3: <u>Vadim S. Sergeyev</u>	
Citizenship:	Russian Federation	Residence: Nizhny Novgorod, Russian Federation
Post Office Address:	Vaneev Str., 19-28	
	Nizhny Novgorod 603105 Russian Fe	ederation
Per		
Signature:		Date: 24 of Harch, 2004
Vadir	n S. Sergeyev	

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